Fin-Tube Liquid-to-Air Heat Exchangers with Fans


With Plain Tube Ends

You'll get all the components you need to get these heat exchangers up and running: a heat exchanger with fan mounting plate (for attaching to a fan), one or two fans (see table), and fan finger guards. The heat exchangers also have flanges with 13/64″ wide slots for mounting to a frame or cabinet (fasteners not included).

The fan(s) help ensure air flow is maintained across the heat exchangers for efficient cooling. Each fan operates on 115 VAC, 60 Hz, 1 phase and comes furnished with a 3-ft. long power cord with two-prong plug. They're UL recognized and CSA certified.

For maximum heat transfer, the exchanger tubes (copper as well as stainless steel) are expanded (formed) into copper cooling fins. **To Order:** Please specify tube ends: plain or with a 37° flared compression fitting.

Copper Tubes—For use with water. Maximum working pressure is 150 psi. Maximum working temperature is 400° F.

Stainless Steel Tubes—Made of Type 316L stainless steel for superior corrosion resistance. They can be used with corrosive as well as high-purity solutions, such as deionized water. Maximum working pressure is 150 psi. Maximum working temperature is 400° F.

Cooling Cap. at 2 gpm, Btu/Hr.	Initial Temperature Differential▲	No. of Fans	Fan cfm	Tube Size	Copper Tubes Overall Size■ Ht.	Wd.	Dp.		Each	Stainless Steel Tubes Overall Size■ Ht.	Wd.	Dp.		Each
1,024	36° F	1	106	3/8″	6 21/32″	5 51/64″	2 51/64″	35145K71	$179.00	6 19/32″	5 51/64″	2 51/64″	35145K81	$282.94
1,365	36° F	1	106	3/8″	5 51/64″	5 51/64″	3 19/64″	35145K72	187.33	5 51/64″	4 57/64″	3 19/64″	35145K82	436.17
2,730	36° F	2	106	3/8″	5 51/64″	10 1/2″	3 19/64″	35145K73	247.01	5 51/64″	9 45/64″	3 19/64″	35145K83	535.02
4,095	36° F	1	225	3/8″	9″	9 1/2″	4 1/2″	35145K74	300.40	9″	8″	4 1/2″	35145K84	558.64
6,996	36° F	2	225	3/8″	9″	19 57/64″	4 1/2″	35145K75	385.83	9″	16 7/64″	4 1/2″	35145K85	760.81
8,191	36° F	1	550	1/2″	12″	11 1/2″	5 19/32″	35145K76	384.52	12″	10″	6″	35145K86	925.80
12,627	36° F	2	550	1/2″	12″	21 19/32″	5 19/32″	35145K77	525.50	12″	20 7/64″	6″	35145K87	1151.86

▲ Inlet temperature of hot liquid minus ambient temperature of air. ■ Overall size does not include tube ends.

Fin-Tube Liquid-to-Air Heat Exchangers for Oil

Dozens of heat-dissipating aluminum fins and copper coolant tubes quickly transfer unwanted heat to the air. These heat exchangers are designed for cooling oil, they are not to be used with water.

Specifications are based on an air velocity of 1000 ft./min. and an initial temperature differential (inlet temperature of hot liquid minus ambient temperature of air) of 50° F. Maximum working pressure is 300 psi. Maximum working temperature is 350° F. Connections: NPT female.

Mounting kit (sold separately) is recommended for installation. It includes two each of the following: rubber blocks, screws, T-nuts, flat washers, and locknut washers.

Cap., gpm	Pipe Size	Overall Size Ht.	Wd.	Dp.	Number of Mounting Kits Recommended per Exchanger		Each
6	1/2″	4 1/2″	15″	1 1/2″	1	3525K11	$51.16
8	1/2″	6 1/2″	18″	1 1/2″	1	3525K21	76.47
7	1/2″	6 1/2″	24″	1 1/2″	1	3525K12	93.67
10	1/2″	8 1/2″	21″	1 1/2″	2	3525K13	112.07
18	3/4″	12 11/16″	18″	1 1/2″	2	3525K14	144.36
22	3/4″	18 11/16″	24″	1 1/2″	3	3525K25	217.39
28	1″	25″	24″	1 1/2″	4	3525K26	304.44
30	1″	31″	30″	1 1/2″	5	3525K27	456.67
40	1 1/4″	37 1/8″	30″	1 1/2″	6	3525K28	493.46
Mounting Kit						3525K41	6.67

Stainless Steel Tube-In-Tube Heat Exchangers

Thick-wall, Type 316 stainless steel tubing combined with welded fittings mean these heat exchangers can take on your high temperature, high pressure, and low-flow applications. They offer excellent corrosion resistance and are great for liquid/gas applications, oil cooling, steam condensing, and even steam sampling in nuclear plants.

These heat exchangers consist of two tubes—an inner tube and an outer (surrounding) tube. Maximum working pressure for the inner tube is 4500 psi up to 200° F; 3000 psi at 850° F. Maximum working pressure for the outer tube is 2000 psi up to 200° F; 1300 psi at 850° F.

Surface Area, sq. ft.	Flow Cap., gpm Inner Tube	Outer Tube	Connections, NPT Inner Tube	Outer Tube	Tube OD Inner Tube	Outer Tube	Overall Size Ht.	Wd.	Dp.	Each
1.2	0.5	2	1/4″ Male	1/2″ Female	1/4″	1/2″	10 3/4″	10 1/4″	4 1/2″	3248K11 $765.71
1.7	2	6	3/8″ Male	3/4″ Female	3/8″	3/4″	10 5/8″	13 3/4″	6 3/8″	3248K12 1051.43
2.5	4.5	12	1/2″ Male	1″ Female	1/2″	1″	11 1/2″	17 1/2″	8 1/2″	3248K13 1440.00

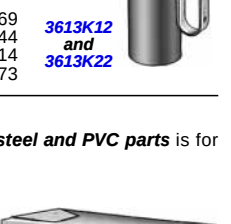
Boiler-Water Liquid-to-Liquid Sample Coolers


3613K12 and 3613K22

Avoid the dangers of testing high-temperature liquid samples by cooling them to safe levels. Sample liquid enters the steel shell cooler and flows through a series of coiled tubes. Cold water from an external water supply flows around the tubes, reducing the temperature of the liquid so it can be drawn and safely tested. Mounting hardware is included. Connections: NPT.

Surface Area, sq. ft.	Maximum Coil psi	Temp.	Pipe Size Sample	Cooling	Overall Size Head Dia.	Lg.		Each
Copper Coil								
1.30	300	400° F	1/4″ Female	1/4″ Female	3 1/2″	17″	3613K31	$235.85
1.64	900	750° F	1/4″ Male	1/2″ Female	7″	16″	3613K12	335.00
2.60	300	400° F	1/4″ Female	1/4″ Female	3 1/2″	32″	3613K33	354.55
Stainless Steel Coil—For better corrosion resistance.								
1.30	1200	1000° F	1/4″ Female	1/4″ Female	3 1/2″	17″	3613K41	351.69
1.64	900	750° F	1/4″ Male	1/2″ Female	7″	16″	3613K22	357.44
2.60	1200	1000° F	1/4″ Female	1/4″ Female	3 1/2″	32″	3613K43	474.14
3.80	5000	1000° F	1/4″ Female	3/8″ Female	5″	30″	3613K61	832.73

Self-Contained Liquid-to-Air Cooling Systems



If refrigerated liquid cooling or precise temperature control are not required, choose one of these ambient cooling systems. A built-in pump and internal reservoir ensure a consistent flow of cooled fluid, while a high-efficiency, fan-cooled heat exchanger dissipates unwanted heat.

All operate on 115 VAC, 50/60 Hz, 1 phase and have a centrifugal pump (except where noted) for quiet operation. Fluid connections are 1/2″ NPT female for inlet; 3/8″ NPT female for outlet (except where noted).

Systems with ***copper and PVC parts*** are for use with water and other noncorrosive fluids. System with ***aluminum and PVC parts*** is for use with oil and other fluids compatible with aluminum. System with ***stainless steel and PVC parts*** is for use with corrosive as well as high-purity fluids, such as deionized water.

Capacity at 3 gpm, Btu/Hr.	Initial Temperature Differential▲	Overall Size Ht.	Wd.	Dp.		Each
Copper and PVC Parts						
1,700	77° F	13 5/16″	17 5/16″	15 3/32″	35205K11	$1039.50
4,450	77° F	13 5/16″	17 5/16″	15 3/32″	35205K13	1160.50
8,200	77° F	24″	15″	15″	35205K15★	1052.50
12,000	77° F	24″	15″	15″	35205K16★	1210.00
Aluminum and PVC Parts						
6,400	77° F	13 5/16″	17 5/16″	15 3/32″	35205K67●	1271.25
Stainless Steel and PVC Parts						
4,450	77° F	13 5/16″	17 5/16″	15 3/32″	35205K24	1578.50

▲ Inlet temperature of hot liquid minus ambient temperature of air.
★ High-output positive-displacement pump. 1/4″ NPT female inlet and outlet.
● 1/2″ barbed fitting inlet and outlet.